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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,048	02/20/2002	Rasoul Mirzazadeh Oskouy	JNP-0004-01	4428
26615 7	7590 06/23/2005		EXAMINER	
HARRITY & SNYDER, LLP		HSU, ALPUS		
11240 WAPLE SUITE 300	ES MILL ROAD		ART UNIT	PAPER NUMBER
FAIRFAX, V	A 22030		2665	

DATE MAILED: 06/23/2005

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Please find below and/or attached an Office communication concerning this application or proceeding.

			t f	
		Application No.	Applicant(s)	
Office Action Summary		10/081,048	OSKOUY ET AL.	
		Examiner	Art Unit	
		Alpus H. Hsu	. 2665	
Period fe	The MAILING DATE of this communication ap or Reply	pears on the cover sheet v	ith the correspondence address	
THE - Exte after - If the	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a repoper of the provision of the	136(a). In no event, however, may a	reply be timely filed rty (30) days will be considered timely.	
- Failt Any	are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	e, cause the application to become A	BANDONED (35 U.S.C. § 133).	
Status	•			
1)🛛	Responsive to communication(s) filed on 13 A	April 2005.		
2a)□		s action is non-final.		
3)□	Since this application is in condition for allowa		ters, prosecution as to the merits is	
,—	closed in accordance with the practice under			
Disposit	ion of Claims			
4)⊠	Claim(s) 39-72 is/are pending in the application	on.		
	4a) Of the above claim(s) is/are withdra	own from consideration.		
5)[Claim(s) is/are allowed.			
6)⊠	Claim(s) 39-72 is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/o	or election requirement.		
Applicat	ion Papers		• • • • • • • • • • • • • • • • • • •	
9)[The specification is objected to by the Examine	er.		
10)[The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.	
	Applicant may not request that any objection to the			
	Replacement drawing sheet(s) including the correct	ction is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.	
Priority	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:		§ 119(a)-(d) or (f).	
	1. Certified copies of the priority documen			
	2. Certified copies of the priority documen			
	3. Copies of the certified copies of the price	•	received in this National Stage	•
* 1	application from the International Burea		h manais and	
~ ;	See the attached detailed Office action for a list	t of the certified copies no	received.	
Attachmer	ıt(s)		·	
_	ce of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)	
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date <u>6/14/02, 1/6/04, VI4/o</u> 5) . 5)	Informal Patent Application (PTO-152)	

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 39, 41, 45-50, 53, 54, 57-60, 63-66 and 71 are rejected under 35 U.S.C. 102(b) as being anticipated by MUNTER et al. in U.S. Patent No. 5,126,999.

Regarding claims 39, 41, 48, 49, 50, 53, 54, 57-60, 63 and 64, MUNTER et al. discloses an apparatus or a device for processing packets, comprising: a first input queue (31 A) configured to receive a stream of incoming packets and to output beginning portions of packets as the beginning portions are received without waiting for the respective packets to be received in their entirety; a first in-line packet processor (41 and 43) for receiving the beginning portions from the first input queue, each beginning portion including first header information, and for detecting the existence of an error in the first header information of each beginning portion; and a first memory (40) for storing packets received at the first input queue and for which the first in-line packet processor did not detect an error in the corresponding first header information.

Regarding claims 45-47, MUNTER et al. discloses a second input queue (31N) configured to receive a stream of incoming packets and to output beginning portions of packets as the beginning portions are received without waiting for the respective packets to be received in their entirety; and a second in-line packet processor (41 and 43) for receiving the beginning portions from the second input queue, each beginning portion including first header information,

and for detecting the existence of an error in the first header information of each beginning portion.

Regarding claims 65, 66 and 71, MUNTER discloses a method of processing a packet, comprising: receiving portions of a packet in a stream; forming a beginning portion of the packet as the portions are received without waiting for the entire packet to be received, the beginning portion containing first header information; while the remaining portions of the packet are 'being received, detecting the existence of an error in the beginning portion; and dropping the packet upon existence of an error in the packet (col. 5, line 55 to col. 6, line 6).

Regarding claims 40, 67 and 68, MUNTER does not disclose that the errors that the first in-line packet processor detects include at least one of unrecognized header format, failure to match a header pattern, incorrect checksum, or incorrect packet length, which are well known error detection schemes and commonly used in error detection/correction field, which is well within the level of ordinary skill in the art to adopt into the system and method in MUNTER et al. to provide the specific error detection/correction mechanism as per user requirements.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 42-44, 51, 52, 55, 56, 61, 62, 69, 70 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over MUNTER et al. in U.S. Patent No. 5,126,999 in view of SUZUKI in U.S. patent No. 4,799,215.

Regarding claims 42-44, 51, 52, 55, 56, 61, 62, 69 and 70, MUNTER et al. differs from the claims, it does not disclose includes a first and second header information, where the first header information comprises link layer header information and the second header information comprises network layer header information, which is also well known in the art and commonly used in communications field for providing higher level data link control and error recovery retransmission control on a link-by-link basis throughout the network.

SUZUKI, for example, from the similar field of endeavor, teaches the use of two headers, with a first and second header information, where the first header information comprises link layer header information and the second header information comprises network layer header information (col. 4, lines 56-66 and figure 3), which can be easily adopted by one of ordinary skill in the art into the system and method in MUNTER et al. to provide higher level data link control and error recovery retransmission control on a link-by-link basis throughout the network to further improve the system reliability and efficiency.

Regarding claim 72, SUZUKI also disclose a plurality of output line interfaces (52) configured to output respective streams of outgoing packets, a lookup processor (51) for determining an output line interface for each packet stored in the first memory based on second

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header information contained in the packet; and a controller (50) for facilitating transmission of packets from the first memory to the respective output line interfaces determined by the lookup processor.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Casper et al., Fan, Gat, Condon et al., Saito et al., Fichou et al., and Duan et al. are all cited to show the common feature of packet forwarding in packet switching system utilizing input queue/buffer, packet processor, and memory similar to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alpus H. Hsu whose telephone number is (571)272-3146. The examiner can normally be reached on M-F (5:30-3:00) First Friday Off.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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AHH

Alpus H. Hsu Primary Examiner

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